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<i>Complete if Known</i>	
Application Number	10/772,822
Filing Date	February 5, 2004
First Named Inventor	Vijayan Rajan et al.
Group Art Unit	NOT YET ASSIGNED
Examiner Name	NOT YET ASSIGNED
Attorney Docket Number	112056-0159



U.S. PATENT DOCUMENTS

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Signature

/Arpan Sayla/

Date
Considered

04/27/2011

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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	20	Administration Guide found at http://www.openafs.org/pages/doc/AdminGuide/auagd010.htm , visited on 3/2/2005	
	21	BASILICO, ET AL., <i>Error Correction System Using "Shadow Memory,"</i> IBM Technical Disclosure Bulletin, May 1984, pp. 5792-5793	
	22	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 th VLDB Conference, LA, CA (1988)	
	23	BLASGEN, M.W. ET AL., <i>System R: An architectural Overview</i> , Reprinted from IBM Systems Journal Vol. 20, no. 1, 1981/1981, 1999	
	24	BORENSTEIN, NATHANIEL S., <i>CMU's Andrew project a retrospective</i> , Communications of ACM, (39)12, December 1996	
	25	BROWN, MARK R. ET AL., <i>The Alpine file system</i> , ACM Transactions on Computing Systems, 3(4):261–293, November 1985	
	26	CHEN, PETER M., ET AL., <i>An Evaluation of Redundant Arrays of Disks Using an Amdahl 5890</i> Performance Evaluation, pp. 74-85, 1990	
	27	CHUTANI, SAILESH, ET AL., <i>The Episode file system</i> , In Proceedings of the USENIX Winter 1992	
	28	CLARK, B.E., ET AL., <i>Application System 400 Performance Characteristics</i> , IBM Systems Journal, 28(3): 407-423, 1989	
	29	Data Sheet for the Check Point Software Technologies product Flood-Gate-1 (1997)	
	30	DIBBLE, PETER C., ET AL., Beyond Striping: The Bridge Multiprocessor File System, Computer Science Department, University of Rochester, Aug. 11, 1989	
	31	DOUGLIS, FRED, ET AL., <i>A comparison of two distributed systems: Amoeba and Sprite</i> - Computing Systems, 1(4), Fall 1991, pp. 359-383 ? (copy of article I have has no date or cite)	
	32	GAIT, JASON, <i>Phoenix: A Safe In-Memory File System</i> . Communications of the ACM, 33(1):81–86, January 1990	
	33	HARTMAN, JOHN H. ET AL., <i>Performance Measurements of a Multiprocessor Sprite Kernel</i> , Proceedings of the USENIX Conference, 1990	
	34	HITZ, DAVE ET AL., <i>File System Design for an NFS File Server Appliance</i> , Technical Report 3002, Rev. C395, presented Jan. 19, 1994	
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	35	HOWARD, JOHN H. ET AL., <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, Aug. 5, 1987	
	36	HOWARD, JOHN, H. ET AL., <i>Scale and performance in a distributed file system</i> , ACM Trans. Computer System., 6(1), Feb. 1988 pp. 51-81	
	37	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-002	
	38	<i>The IBM System/38</i> , Chapter 8, pp. 137-15	
	39	ISOMAKI, MARKUS, <i>Differentiated Service for the Internet</i> , Department of Technical Physics and Mathematics, May 9, 1998	
	40	KAZAR, MICHAEL L., ET AL., <i>Decorum File System Architectural Overview</i> , USENIX Summer Conference, Anaheim, California, 1990	
	41	LOMET, DAVID., ET AL., <i>The performance of a multiversion access method</i> , ACM SIGMOD International Conference on Management of Data, 19-23 363	
	42	LORIE, RAYMOND, A., <i>Physical Integrity in a large segmented database</i> , ACM Trans. Database Systems, (2): 91-104, March 1977	
	43	LORIE, RA, <i>Shadow Page Mechanism</i> , IBM Technical Disclosure Bulletin, June 1986, pp. 340-342	
	44	MCKUSICK, MARSHALL KIRK, ET AL., <i>A Fast File System for UNIX</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, Feb. 18, 1994	
	45	MILLER, ETHAN L., ET AL., <i>RAMA: A File System for Massively Parallel Computers</i> , 12 th IEEE Symposium on Mass Storage Systems, Monterey CA, April 1993, pp. 163-168	
	46	MOONS, HERMAN ET AL., <i>Location-Independent Object Invocation in Open Distributed Systems</i> , Autumn 1991 EurOpen Technical Conference and Exhibition, pp. 287-300 (September 16-20, 1991)	
	47	MORRIS, JAMES H., ET AL, <i>Andrew: A Distributed Personal Computing Environment</i> , Comm. of the ACM, vol. 29 March 1986, pp 184-201	
	48	MULLENDER, SAPE J., ET AL., <i>A distributed file service based on optimistic concurrency control</i> , ACM Symposium on Operating System Principles (Orcas Island, Washington). Published as Operating Systems Review, 19(5):51-62, December 1985	
	49	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
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	49	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
	50	OUSTERHOUT, JOHN K. ET AL., <i>The Sprite Network Operating System</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, Nov. 19, 1987	
	51	OUSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988	
	52	OUSTERHOUT, JOHN, <i>Why Aren't Operating Systems Getting Faster as Fast as Hardware?</i> , Digital WRL Technical Note TN-11, October 1989	
	53	OUSTERHOUT, JOHN, <i>A Brief Retrospective On The Sprite Network Operating System</i> , found at http://www.cs.berkeley.edu/projects/sprite/retrospective.html visited on 3/11/2005	
	54	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley (1987)	
	55	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17):109-16 (Sept. 1988)	
	56	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master of Science in Computer Science Thesis, September 2002	
	57	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 (1991)	
	58	Redundant Array of Independent Disks, from Wikipedia, the free encyclopedia, found at http://en.wikipedia.org/wiki/RAID , visited on 3/9/2005	
	59	ROSENBERG, J., ET AL., <i>Stability in a Persistent Store Based on a Large Virtual Memory</i> , in Security and Persistence, Rosenber, J. & Keedy, J.L. (ed), Springer-Verlag (1990) pp 229-245	
	60	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engin. And Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990	
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	61	ROSENBLUM, MENDEL, ET AL, <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.	
	62	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> , In Proceedings of ACM Transactions on Computer Systems, (10):1-26-52, February 1992	
	63	SANDBERG, RUSSEL ET AL., <i>Design and implementation of the Sun Network Filesystem</i> . In Proc. Summer 1985 USENIX Conf, pages 119-130, Portland OR (USA), June 1985	
	64	SANTRY, DOUGLAS S., ET AL., <i>Deciding When to Forget in the Elephant File System</i> , Operating Systems Review, 34(5), (Dec. 1999) pp.110-123	
	65	SATYANARAYANAN, M., ET AL., <i>The ITC Distributed File Systems Principles and Design</i> , In Proceedings of the 10th ACM Symposium on Operating Systems Principles, (19):5-66-67, December 1985	
	66	SATYANARAYANAN, M., <i>A survey of distributed file-systems</i> . Annual Review of Computing Science, 4(73-104), 1989	
	67	SATYANARAYANAN, M., ET AL, <i>Coda: A highly available file system for a distributed workstation environment</i> . Carnegie Mellon University, CMU-ITC	
	68	SATYANARAYANAN, M., ET AL., <i>Coda: A highly available file system for a distributed workstation environment</i> . IEEE Transactions on Computers, 39(4):447-459, 1990	
	69	SATYANARAYANAN, MAHADEV, <i>Scalable, Secure, and Highly Available Distributed File Access</i> , Computer May 1990: 9-21	
	70	SIDEBOOTHAM, BOB, <i>Volumes: The Andrew File System Data Structuring Primitive</i> , EEUG Conference Proceedings, Manchester, UK, Autumn 1986	
	71	User Guide found at http://www.openafs.org/pages/doc/UserGuide/auusg004.htm , visited on 3/2/2005	
	72	WELCH, BRENT B., ET AL., <i>Pseudo Devices: User-Level Extensions to the Sprite File System</i> . Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, April 1988	
	73	WELCH, BRENT B., ET AL., <i>Pseudo-File-Systems</i> . Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, Oct. 1989	
	74	WITTLE, MARK, ET AL, <i>LADDIS: The next generation in NFS file server benchmarking</i> , USENIX Association Conference Proceedings, April 1993.	

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